

## CLAIMS

1. A compression fitting for rigid or semi-rigid pipes in metal, rigid plastic material, or metal-plastic multi-layer, comprising an internal element onto which the pipe is fitted and into which at least one circumferential groove is machined and an external sleeve usually cylindrical is positioned around the portion of pipe fitted on the internal element and intended to be deformed by radial compression to deform the pipe so as to make its wall adhere to the bottom of the groove, characterized in that the width of said groove on the internal element is greater than the thickness of the pipe and its maximum depth is equal to at least a quarter of the thickness of the pipe, and that the external wall of the sleeve bears a circumferential protruding grooving corresponding with its area that is found in line with the groove of the internal element with interposition of the wall of the pipe, the width of said grooving being less at the width of the groove of the internal element and height at least equal to the depth of the groove, so that the compression of the sleeve by action of a cylindrical wall pressing radially acts on the grooving to deform the sleeve in the sense of deforming the wall of the pipe to penetrate said groove of the internal element.
2. Fitting according to claim 1, characterized in that the height of the grooving is between 1 and 1.5 the depth of the groove, preferably about 1.3 times the depth of the groove.

3. Fitting in accordance with claim 1, characterized in that the width of the groove is about 1.5 times the thickness of the pipe
4. Fitting in accordance with claim 1, characterized in that a plurality of grooves axially spaced along the internal element is provided for.
5. Fitting in accordance with claim 1, characterized in that a seat is made at the bottom of the groove, in which an elastic seal ring gasket is positioned.
- 10 6. Fitting in accordance with claim 1, characterized in that axial holding means of the extremity of the sleeve with the internal element are provided, to identify their mutual positioning.